WIRE WHEELS COMING IN OVER HERE AGAIN?

Two Makers Planning to Use Them in This Country on Next Season's Cars.

CHIEFLY A BRITISH IDEA

At Present They Are Not Seen Much on the Continent-The Points for Them.

E. C. J. McShane, representing the Mercer company, returned not long ago from England with drawings and literature on wire wheels and it is likely that Mercer cars in 1913 will be equipped with this type of wheel. H. J. Edwards, who is head of the new Edwards Motor Company, which is to build a Knight engined automobile, has given indications since he got back from a foreign

British practice is strongly devoted

alded figure.

2. The load in the suspension wheel is

carried by a great number of the spokes, while in the wood wheel practically only one spoke at a time takes the load. manipulating the design it is possible to give the strength in exactly the direction required. With a wood wheel

this is impossible without increasing the resistance. 4. The suspension wheel being entirely

made of steel is affected equally by changes of temperature. The wood wheel with

out by the tests conducted by the Daim-less a driver obeys intructions and sends ler Company, which show a reduction in the truck along at a moderate pace. the tire bill of about 40 per cent.

Bert Morley in a paper read before

after their visit abroad last year, says in comment: "The fact should not be overlooked that the foreign wheel-wright has neither the wood nor the methods to form felioe stock that we americans fortunately possess, nor the methods of making wheels. The foreign wood felioe is cut out of small of meditation to determine the effect of constant speeding upon an owner's tire pieces, and although these are care-

nishes the 'suspension' principle, which the foreign manufacturer can obtain OUR CARS AT THE DURBAR. only through the medium of the wire ply only to equable climates such as England enjoys. Several of our entremes of climate such as we have would tend to expand and contract the steel spokes to the breaking point. Paragraph 5 is most interesting. In connection therewith the following from reports from the Daimler Company are also presented as worthy of considera-

"'While it has been quickly realized wire wheels make for greater strength good test of the power and durability of and safety, and at the same time secure by the observant motor car owner that distr a considerable reduction of dead weight. their beneficial effect upon the life of tires is not so generally known, and we therefore trespass upon your space to record the results of certain experiments which have been carried out by our tire department in London. There careful data have been kept of all tire replacements and repairs, and the following figures show the mileage obtained on heavy covered cars from 109 non-skid 935 by 135 mm. covers, half of which were fitted to wire and half to wooden wheels: Total mileage obtained from sifety non-skid 935 by 135 mm. covers taken from wire wheels, 172.731 miles: average 3.454. Total mileage obtained from the same to suppose the automobile sections. It took just two days, with an extra detail of police, to acquaint the general run of traffic with the new constitution, says Charles F. Splitdorf. "A single spark calls for an approximate advance of 30 degrees at the maximum power dutient of the compressed charge is ignited quicker and from both sides of the cylinder, thus burning the charge better and also tending to expand it more completely.

"Fouling and short circuiting are eliminated to a greater extent, resulting in motor and car."

from fifty non-skid 935 by 135 mm. covers taken from wood wheels, 102,524 miles; average 2,050. Average miles per cover, 3,454 on wire wheels. Average miles per cover 2,050 on artillery wheels. As the cars employed were practically identical and were run under exactly similar conditions the results are very instructive:

"In considering these tests attention is invited to the peculiar conditions of London driving. Road regulations are to drive as fast as you can. The streets are very congested, and the idea seemed to be, 'Hurry, because there are a dozen wanting your space.' This necessitates extensive and frequent usage of the

to be. Hurry, because there are a dozen wanting your space. This necessitates extensive and frequent usage of the brakes. Under sudden braking strains, wire wheels have a radial action or 'give' that wood wheels do not afford. This 'give' is perceptible to the riders when the brakes are applied and also when speedily rounding corners.

"An interesting feature of both the wire and wood wheels abroad is the quick acting removing hub, making it possible to detach the wheel from the hub and replace with another. This to the English wheel is the equivalent of the demountable rim of the American car. In England the detachable wheel meets the situation, as the majority of cars are driven by chauffeurs, upon whom falls the labor of making the change. In this country the majority of owners drive their own cars and demade a tire and rim that are light, easily removed and replaced. The detachable wire wheel although undoubtedly well removed and replaced. The detachable trip that the Edwards car would have this wheel too. These two cases form an indication of a trend toward wire wheel construction over here again.

British practice is strongly devoted by the demonstration of the demonstration of the demonstration over here again.

British practice is strongly devoted to the wire wheel, but France and Germany, like this country, favor the artillery wood wheel. The reason for the English preference is chiefly that wood stock for automobile wheels is not commercially available. One engineer who saw comparative tests of wood and wire wheels made abroad said he believed the wood was shown to be weaker, certainly in part, because of the stock. Had the tests been made with wheels of American stock he thought they would not have suffered in comparison.

The case for the wire wheel against the wood as it appeals to a maker of the former type is set forth thus:

1. The large number of spokes (72 in our case) insures complete circularity. The twelve spokes of a wooden wheel tend to make the wheel into a tweive sided figure.

better suited to the American requirements,"

Elsewhere, as to the point of beauty, which is brought up hereafter, Mr. Morlety says: "Any radical departure from conventional lines of design is apt to be opposed from the standpoint of appearance, but as we become accustomed to the change the original offence to the eye is forgotten, particularly if the modification results in added utility. Consequently, although to be upon the point of beauty, which is brought up hereafter, Mr. Morlety says: "Any radical departure from conventional lines of design is apt to be opposed from the standpoint of appearance, but as we become accustomed to the change the original offence to the eye is forgotten, particularly if the modification results in added utility. Consequently, although to be perance, but as we become accustomed to the change the original offence to the eye is forgotten, particularly if the modification results in added utility. Consequently, although the viewer admiring the beauties of some of the wheel looked odd to us, the impression was shortlived; before our departure wheel looked odd to us, the impression was shortlived; before our departure wheel looked odd to us, the impression was shortlived; before our departure wheel might have been designated in earlier days "the Bishop's carriage." Now, however, it is the Cardinal's car. It is a 30 horse-power Panhard with Knight engine, with a special body of what is called the berline de voyage type. The

count of the difficulty of keeping it in that condition without undue labor. The construction of the wire wheel is such that it is a dirt gatherer, the network of cross wire spokes precluding rapid cleaning. Of course this feature is not so aggravated in Europe with its smooth old army roads, but when the mud and ruts of most of our roads are considered the element of dirt becomes an objectionable factor."

width of the spokes and thereby the air SPEED HURTS TRUCK TIRES

The Fast Driver Is a Menace and a Big Expense Too.

"It makes no difference how well solle is liable to damage: this is quite dis-tinct from the shrinkage and contraction manufacturer goes to fortify them against of wood with different degrees of hu-midlty, which, of course, have no effect will not withstand the abuses of the midity, which, of course, have no effect whatever on a wire wheel.

5. The wire wheel by employing thin material of high heat conductivity plays an important part in keeping, the ties. important part in keeping the tires thing-decreased tire mileage and in creased the economy of the Rudge-Whit-worth detachable wire wheel, as borne a matter that cannot be regulated un-Reliable drivers do this, but there is al-Bert Morley in a paper read before ways the other fellow, who as soon the Society of Automobile Engineers, as he is out of sight of the boss, throws

constant speeding upon an owner's tire

fully matched together they manifestly present a structural weakness from which the whicels made in this country from whole stock and under hydraulic pressure are free.

'Thus the American wood wheel furnishes the 'suspension' principle, which is the form of the list Every manager of a motor service should insist upon strict observance of moderate speeds. Economical tire service cannot be got in any other way."

wheel. Paragraph 4 would seem to ap- Nearly 500 American Made Machine There, Is One Report.

gineers expressed the belief that ex- automobiles got a great deal of advertise ment by the action of various Indian governments in placing orders for such cars which were used in the ceremonies. Onwhich were used in the ceremonies. One report has it that nearly 500 American made machines were there. One Madras firm alone, for the locani government officials, sold ten such cars. Since the durbar celebration the market for American machines in India has increased further. The Mitchell Company reports that there were present three of its cars of the big six type, which carried Prince Pindi Rawl Jehlm and his retinue from Kashmir. The district is mountainous and furnishes a

Two Point Ignition.

MIDDLE OF STREET

Novel Scheme Tried by City of Philadelphia in Handling

AUTOMOBILE

heavy teams driving into the path of swiftly moving cars. These heavy teams had acquired a habit of turning into Market RUNNING A MOTOR CAR street, turning sharply around the corners and then obliquely across the street into the line of travel. Under the new order they must continue across the street before making the turn into the line of traffic, giving the motorist that much more time to avoid a possible collision.

Philadelphia in Handling
Broad St. Traffic.

CURBS THUS LEFT CLEAR

"Safety Isles" Turned Over to Machines—Confusion Is Readily Avoided by Plan.

An experiment in traffic regulations being made by Philadelphia in the more congested section of the city has for its object the segregation of motor traffic from the slower going horse drawn vehicles. The traffic regulations are sorts of vehicles, but particular attention is given to automobiles, so as to help pedestrans and also to have the care get along more freely. The unique feature in traffer is a feet of the city is a section of the city has for its object the segregation of motor traffic from the slower going horse drawn vehicles are set of the city has for its object the segregation of motor traffic from the slower going horse drawn vehicles are set of the statement of the city has for its object the segregation of motor traffic from the slower going horse drawn vehicles are set of the statement of the city has for its object the segregation of motor traffic from the slower going horse drawn vehicles are statement to be in the middle of the city has for its object the segregation of motor traffic from the slower going horse drawn vehicles are statement to be in the middle of the control in sorts of vehicles, but particular attention is given to automobiles, so as to help pedestrians and also to have the care get along more freely. The unique feature west. No automobiles are allowed to state the cases in All Sections.

CAN BE DONE ON LITTLE attended the theatere may be the the cases in All Sections.

CAN BE DONE ON LITTLE attended the theatere may be the theatere may be the theater on the play house on a heavy night, and these heretofore were house on a the street in front of the theatere. May night a group of machines could be streets, but on almost and in front of the theatere. May night a group of machines could be proved in Front of the theatere. May night a group of machines could be proved to streets and allot the control of the case in All Sections.

C

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The automobile illustrated herewith car may be entirely open like a touring also. For many years his priests, mem

might have been designated in earlier car, arranged like a demi-limousine or be bers of Catholic organizations and per-

CARDINAL

GIFT

The average car is used 4,000 miles a year -this including summer trips, week end trips, the trip to and from the office and evening jaunts," says the writer. That

means only twenty miles a day for 200 "That makes an average of about 333

\$12 a month. · Allowing for puncture

the outside figures. The reliable auto-

mobile dealers take care of adjustments

"There you have approximately, \$25-

adding up all figures as maximum charge and when I state that figure I

take into consideration the fact that the

motor car is the most abused of all ma-

Whatever section of this country these

figures represent they can hardly apply

to New York city. They estimate gaso-

lene at 15 cents a gallon and an average of

thirteen miles to the gallon. They represent a garage charge which is about half

the average in New York city. The figures are not low, certainly, on the tire mileage

It is the general understanding that most

tires do about 3,500 miles, rather than

As to the abuse the machinery must withstand there cannot be two ways of thinking about that. The writer adds very well: "A car well cared for can give

lifetime service. Take the railroad loco-Every hundred miles it is care

fully examined and oiled. At every two minute stop the engineer gets out with his oil can and lubricates the moving joints

of the steed of the rail. The locomotive

on their cars.

ohinery

exceptions.

he continues. "For

FARLEY

has an expert mechanician in constant attendance. It runs on rails that are like a level floor. "Contrast this with the treatment of an CONTRACT THE CONTRACT OF THE CONTRACT

a level floor

"Contrast this with the treatment of an automobile—with the roads it must encounter—you will quickly see that the modern motor car is a transportation masterpiece, for it performs with as much certainty in the layman's hands as does the locomotive controlled by an experienced man. Imagine, then, what the motor car in the hands of the layman who will endeavor to care for it can be capable of at very small expense. Care of a car is vital in determing its cost to the owner. In caring for the car naturally the first requisits is knowledge of the car.

"Makers of cars as a rule make provision for this by issuing books on the subject. Occasional scrutiny of these books —combined with the fact that the automobile has given many business men good mechanical knowledge thus gained a proper care of the car is comparatively easy. And properly cared for there is scarcely a limit to the period of service which a family may enjoy from a proving the thesis of the writer that families with incomes averaging from single automobile. That fact also enters into the addition of a modern motor car to a family's possessions."

However, it should be remembered

into the addition of a modern motor car to a family's possessions."

However, it should be remembered that averages are ticklish things to handle and although it is certainly not an overpoweringly burdensome thing to run an automobile, costs vary as greatly as the makes of car and a monthly charge of \$25 for all expenses of a car is, unless the machine is wonderfully economical, rather beyond the reasonable expectation.

BARRED FROM THE STREETS.

Horse Drawn Vehicles Soon Will

Says Goodyear Tire Man. "It will be a matter of only a few years," says P. W. Litchfield, factory manager of the Goodyear Tire and Rubmanager of the Goodyear Tire and Rubber Commpany, "until the use of horse drawn trucks in cities will be prohibited by law. Mr. Litchfield, in common with other observers of the development of the automobile business, predicts that the development of the motor truck in the next five years will be as great as the development of the pleasure type of car was in the past five years."

This year's automobile shows in the larger cities of the country, he cites as significant. Previous to two years ago there was no such thing as a real show of motor trucks. Now New York, Chicago and a number of other large cities have made excellent shows in heavy and light commercial cars. Next year's shows, according to all evidence now obtainable, will mark another big step forward in the direction of efficient transportation of heavy commodities in cities and elsewhere.

As in the development of the pleasure to the morning, or maybe a little earlier, to the garage and looks over the machine, making ready to go down to the house at the usual time, which is somewhere between half past 8 and 9 o'clock. He takes the man of the family down to his office and then generally is under orders either to come back to the house orders either to come back to the house orders either to come back to the house orders either to come back to the women folks, or else if they have already ridden down to set some one of the women folks, or else if they have already ridden down to to get some one of the women folks, or else if they have already ridden down to to get some one of the women folks or else if they have already ridden down to to get some one of the women folks or else if they have already ridden down to the man of the family down to the same of the man of the family down to the usual time, which is somewhere about the usual time, which is somewhere about to get some one of the stakes the man of the family down to takes the man of the family down to the some one of the usual time, which is somewhere about non the family down to the same of the

Its own records for quantitative producion were broken in March by the Stude baker Corporation, whose Detroit factories baker Corporation, whose Detroit factories produced an almost equal number of E-M-F and Flanders cars. Their combined value was \$4.276,000. Across the river, in Walkerville, Ont., the Studebaker Corporation of Canada had an output in the same month of \$325,000. Had it not been for the car shortage, the Detroit output, it is figured, would have been \$500,000 more.

Rush Work in Delivering Coal. In order to be sure of coal in case a strike was declared the Hotel Belmont gave an urgent order recently to one company, which is equipped with Commer trucks. Starting early one Sunday morning the three trucks of 6½ tons capacity, delivered up to nightfall 376.1 tons, each truck making 18 round trips of 3 3-5 miles from the yards to the hotel and back. One of the trucks has been in service a year and a half, but did just as much as either of the two other more recent purchases.

recent purchases. New York-Savannah Highway. "I note with satisfaction that the plan of a highway from Washington to Savanor a nighway from washington to Savan-nah is taking definite shape," says Ferdi-nand Cimiotti of the Pullman agency. "It was over this route that the Pullman forty led in a road contest from New York to Savannah several years ago. At that time the roads were in deplorable condition and headway was difficult."

Has Confidence in Havers Six. "The Havers Six-41 is a newcomer to New York," says Albert L. Kull of the Havers-Imperial Auto Sales Company, "but I believe that the value in it at the price will be attractive to automobile buy-ers. We feel that it is a good six cylinder machine at a moderate price."

An Alco in Black and Gray for G. Carnegie. George L. Carnegie of this city, a nephew of Andrew Carnegie, has bought a six cylinder 60 horse-power Alco tour-ing car, finished in gray with a black stripe around the body. Mr. Carnegie, returned not long ago from Europe and took the car after a demonstrating trip.

Especially in the Winter Time They Are Almost Constantly

Being Employed. DRIVERS ARE ON DECREASE

PRETTY LONG HOURS

Owners Now Handle Cars More Than They Used To, So Jobs Are Not Not So Many as They Were.

Being a chauffeur is a job that seems better to a great many young men before it is undertaken than it does afterward. At first blush to get anywhere from \$20 to \$30 a week for running an automobile seems like fairly good pay, because the work does not appear to be exhausting, and as it involves pleasant enough re-lations with one's employers and ordinarily an enjoyable summer, on the surface it has a great many features which are worth while. But it is in the winter time when the driver is apt to feel that the job could be a whole lot pleasanter

and easier.
"Chauffeur's hours" are proverbial of much work. For instance, the man who is driving a town car or a closed car which is in general family use in the winter gets around about 8 o'clock in the morning, or maybe a little earlier, to the garage and looks over the machine,

heavy commodities in cities and elsewhere.

As in the development of the pleasure car, tires are having a great deal to do with the despatch or delay of the trucks development. The Goodyear Tire and Rubber Company was one of the first tire concerns in the country to prepare for the truck tire business that is now at hand.

STUDEBAKER HIGH RECORD.

March the Banner Production Month,
With More Than \$4,000,000 Worth.

Its own records for quantitative productions. Afternoon after he has had a lunch, which wite has had a lunch, which wite he is differnoon after he has had a lunch, which will go wing to a not very great income, he is likely to eat in some cheap place. The afternoon's work is very apt to consist afternoon's work is very apt to consist afternoon's work is very apt to consist of driving in the park of further out, or else more waiting in front of stores. And then the chances are he will go coming back from business. Some men town, others ride up a distance on the subway and have their cars meet them at some one of the subway stations between Fourteenth and Forty-second streets.

when he gets the man home he is not anlikely to be ordered to call up after he has had his supper. Folks go out to the theatre frequently enough or they pay visits and as there is nothing easier to contract than the automobile habit, they get to that they are averse to going anywhere.

bined value was \$4,276,000. Across the river, in Walkerville, Ont., the Studebaker Corporation of Canada had an output in the same month of \$325,000. Had it not been for the car shortage, the Detroit output, it is figured, would have been \$500,000 more.

The Studebaker plants also established a new record for one day's shipments, when on March 30, 374 new motor cars were loaded at the sidings and started on their way to the salesrooms of ninety-eight branches and dealers. It is expected that a greater total will be reached in April, as the factories are reported to be behindhand on orders in spite of the large amount produced.

FIRST IN UNDER N. J. LAW.

Connecticut Motorist Waited in Trenton for Bill to Be Signed.

Connecticut motorist No. 3444 figured as the first man in the country to take advantage of New Jersey reciprocity last Tuesday. He waited patiently all the afternoon in front of the State House at Trenton until Gov. Wilson, at exactly five o'clock, attached his signature to the ticket bill.

A handshake with the Governor, and the man from Connecticut scurried outside to his car, removed his New Jersey license and proceeded forthwith without hesitancy until he met the first policer man, to whom he successfully explained that non-resident monorists were now

eho do not seem to think that the chaufeur ever requires a day off and he doesn't get it. To judge from the advertisements that appear in the daily papers and those devoted to automobiles, there are more chauffeurs looking for jobs than there are places open for them, so that apparently, in spite of all the discomforts, there is a demand for this sort of work. However, that does not absolutely follow, because some of the overplus of chauffeurs is caused by the fact that a great many owners now drive their own cars and look after them where formerly this was a rarity.

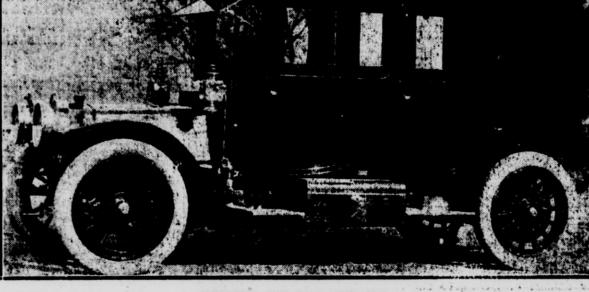
cars and look after them where formerly this was a rarity.

It will be remembered that not very long ago the police began to pick up chauffeurs who would not display their license badges, as the law demands. This was done at the auggestion of the State inspectors working for Secretary of State Lazansky, who suspected that a great many men must be driving cars without licenses, because the number of those applying for licenses had fallen of some thousands in 1911 from what they were in 1910.

those applying for licenses had fallen of some thousands in 1911 from what they were in 1910.

His deduction was correct, although not based on an entirely correct premise. The decrease in the number of licensed chauffeurs has been primarily because there are less places open for them. So many more owners drive their cars than was the case in 1910 that the reason for the decrease is not far to seek.

The problem of the chauffeur, which was a big one is fast approaching a solution. Time was when the car owner knew little or nothing about an automobile and was entirely at the mercy of his hired driver. A good many of the chauffeurs do not know that the days of pillage have passed. They are only gradually coming to it. As fast as automobile knowledge increases among car owners just so fast do the chances for the chauffeur for graft recede.



CARDINAL FARLEY'S NEW CAR.

is in the parking of waiting machines in the middle of Broad street, so as to leave the curb line clear to traffic.

The general plan as described in the current issue of Motor is given herewith: George D. Porter, Director of Public Safety, and his associates in the department have evolved the plan. The first experiment was made on Broad street south of City Hall. This is in the hotel and office building section. At this point the curb on both sides of the street was lined with autos waiting for the owners, leaving a narrow path for the regular traffic. The presence of a dray or heavy vehicle on the street impeded the progress of moving motor cars and congestion followed.

the progress of moving motor cars and congestion followed.

Broad street is 113 feet wide, with a roadway of about 75 feet. Through the centre of the street are a string of ornamental electric light poles and the space mental electric light poles and the space is flashed in full view of the line of parked of his own, \$10 a month. If he continues. "For gasolene the cost is \$3.75 a month, for approximately twenty-five gallons are necessary. Lubricating oil will cost about \$1.60 a month. If he owns no garage of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own, \$10 a month is the standard of his own. between the poles is known as the "safety Under the new regulations auisle." tomobiles use this safety isle as a parking

An automobile moving south on Broad street desiring to stop on the west side can do so, and after discharging the passenger swings over into the centre of the street to park the machine. To pick up the passenger the car must swing into the line of northbound traffic on the east side to Chestnut street, the first cross street above, and then turn south on the west side to again take on the passenger. No machine is allowed to back out of the parking space reserves, but instead must

always seek the line of traffic. This experiment proved so satisfactory that it was extended to other congested

"Since then, as with every great invention remain standing in front. of the opera house, or at points south.

Motor cars moving north on Broad street make the crossover from the line of traffic on the east side to the west side where the Opera House is situated, and discharge passengers at the Broad street entrances. Having disch-rged passengers the car moves over into the line of traffic on the east side, and thence north to the parking place. there has been amazing progress."

The article assumes that the car, to cost between \$1,000 and \$2,000, is paid for out of the savings or inheritance of the buyer. It helps to show how hard it is to present average figures that will fit the figures of cost are down pretty low.

miles a month."

cars, and which can be seen for several blocks. In loading passengers the line moving from the parking places to the Opera House again divides, those whose homeward true is could be about 1. The cost spread over a year will be about 5.000 by the cost spread ove homeward trip is southward picking up passengers on the Broad street front, while those whose destination is in the opposite direction go to the Poplar street repairs \$1, the cost is \$13 a month. Often this cost will not exceed \$10, but I am giving opposite direction go to the Popiar street entrances. Any car moving to the en-trance and finding that the passenger is not ready cannot linger so as to block traffic. The car then moves on making the round trip in the line of traffic taking up the accorded position in the parking places and rejoining the line when called.

NEW OVERLANDS.

Two Models for Business Purposes on the 59 Chassis.

Willys-Overland Company of To edo lias brought out two new delivery wagons. Both are mounted on the Model 59 chassis. One is called Model 59 delivery special, and the other Model 59 livery special, and the other Model 59 delivery express. The former is equipped with a covered body and the latter with an onen body. Each has a carrying capacity of 800 pounds.

The covered waxon has a floor length of 60 inches, the width of the body being 43 inches and the height 53 inches, it has a 30 horse-power motor and lists at \$1,000. The open express is sold at \$50 less. The length of the floor is 57 inches, width of floor 42 inches, height of sides 10 inches and width of side wings 6 inches. 5,000 miles, although of course there are

CARING FOR CUSTOMERS.

Factory Aid to Retailers Is Important, Says John Dale.

"One mistake of some manufacturers has been that of not taking care properly of retail customers." says John G. Dale, of the Simplex Automobile Company "Those who have made it a practice to build up and maintain a direct relation between factory and user are in the strongest position to-day.

"A service innovation which has been popular with our customers is that at any time they can consult our designers for suggestions and advice."

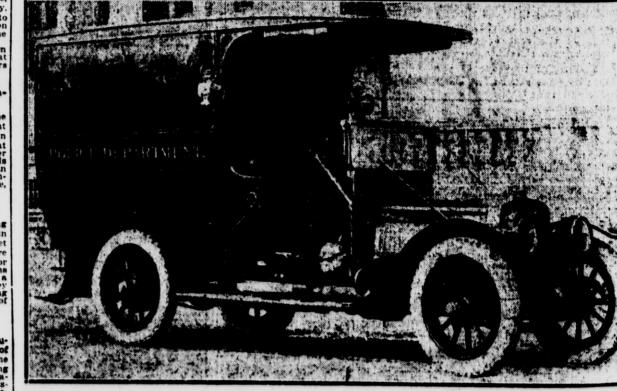
Toured World by Car; Now Export Manager.

Thomas O. Jones, who was one of the Thomas O. Jones, who was one of the party of three in the Hupmobile that went round the world, got such a schooling in the ways of foreign trade on the way that he has become assistant export manager for the R-C-H Corporation, which sells the R-C-H car. The trip took more than a year and was undertaken chiefly to improve the export trade of the Hupmobile, which it succeeded in doing.

Truck as Circulating Advertisement. A department store in Detroit is making se of a motor truck as a moving bulleting of special sales. Panels about two feet deep and the full length of the truck are attached to either side and the goods for sale are blazoned forth there on signs large enough to be read while the truck, a General Motors products, is running. They figure in that store that the advertising hays them for the cost of maintenance of

Students Bee Rambler Plant.

By way of a field excursion fifty students from the engineering department of Northwestern University went through the Rambler plant at Kenosha, Wis., not long ago. They examined the automatic machinery, asked questions about the transmission and the engine, talked with foremen and shop hands and altogether had a pretty satisfactory three hours in the plant.



NEW MOTOR PATROL BUILT BY LOZIER MOTOR CO. FOR AUGUSTA, GA., POLICE DEPARTMENT. SEATS TEN .. PERSONS, EXCLUSIVE OF DRIVER AND ATTENDANT ON FRONT SEAT.

AMERICAN SCOUT, AN UNDERSLUNG ROADSTER.